

What is claimed is:

1. A method of dispensing a medicament, comprising:  
providing a treatment plan having at least two rates of action for a medicament;

5 selecting a droplet characteristic corresponding to each of the at least two rates of action; and

ejecting medicament droplets having each droplet characteristic into a mucosal tract according to the treatment plan, thereby allowing the medicament to act at two or more rates.

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2. The method of claim 1, wherein selecting a droplet characteristic includes selecting a droplet size, and wherein ejecting medicament droplets includes ejecting medicament droplets having each droplet size.

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3. The method of claim 1, wherein selecting a droplet size includes adjusting the droplet size according to a predicted change in the droplet size produced during flight of the medicament droplets after ejection.

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4. The method of claim 1, wherein ejecting medicament droplets includes ejecting medicament droplets having each droplet characteristic using different ejection devices within a single medicament ejection apparatus.

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5. The method of claim 1, wherein selecting a droplet characteristic includes selecting a medicament composition, and wherein ejecting medicament droplets includes ejecting medicament droplets having each medicament composition.

6. The method of claim 5, wherein selecting a medicament composition includes selecting a concentration of an excipient.

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7. The method of claim 5, wherein selecting a medicament composition includes selecting a drug to be included in the medicament composition.

5 8. A method of dispensing a medicament, comprising:  
providing a treatment plan having at least two rates of action for a medicament;

selecting a size of medicament droplet to be ejected in correspondence with each of the at least two rates of action; and

10 ejecting medicament droplets of each selected size into a mucosal tract according to the treatment plan, thereby allowing the medicament to act at two or more rates.

9. The method of claim 8, wherein selecting a size of medicament  
15 droplet includes selecting a size of medicament droplet according to a deposition site for the size of medicament droplet in the respiratory system of the person, the deposition site defining an absorption rate for the medicament that corresponds to one of the at least two rates of action.

20 10. The method of claim 8, wherein ejecting medicament droplets of each selected size includes independently forming medicament droplets of each selected size adjacent different orifices of a single medicament ejection apparatus.

25 11. The method of claim 8, wherein ejecting medicament droplets of each selected size includes ejecting at least a subset of the medicament droplets of each selected size at different times.

30 12. The method of claim 8, wherein ejecting medicament droplets of each selected size includes ejecting at least a subset of the medicament droplets of each selected size within a single dose.

13. The method of claim 8, which further comprises selecting a composition for each size of medicament droplet.

14. The method of claim 13, wherein the composition is selected from  
5 compositions having different amounts of a bioactive agent.

15. The method of claim 8, wherein providing a treatment plan includes providing a treatment plan to treat addiction to nicotine, and wherein the medicament includes nicotine or a nicotine analog.  
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16. The method of claim 8, wherein selecting a size of medicament droplet includes selecting a different size of medicament droplet for each rate of action.

15 17. A method of dispensing a medicament, comprising:  
selecting a deposition site for a medicament on each of an upper and a lower mucosal region of a respiratory system;  
selecting droplet sizes corresponding to the selected deposition sites; and  
ejecting medicament droplets of the selected droplet sizes into a mucosal  
20 tract of a person from a single ejection device, to enable the medicament to be absorbed at different rates adjacent the selected deposition sites.

18. The method of claim 17, wherein ejecting the medicament droplets of the selected droplet sizes is performed at different times.  
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19. The method of claim 17, wherein selecting a deposition site on each of an upper and a lower mucosal region includes selecting a deposition site on an oral mucosal region and a pulmonary mucosal region.

20. The method of claim 17, which further comprises providing a treatment plan using a medicament at different rates of action, wherein selecting a deposition site includes selecting an upper and a lower mucosal region in correspondence with each of the different rates of action.

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21. The method of claim 17, wherein ejecting medicament droplets of the selected droplet sizes includes ejecting medicament droplets having a different composition for each selected droplet size.

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22. A method of dispensing a medicament, comprising:

providing an ejector configured to selectively eject medicament droplets of at least two sizes, a first size being configured for deposition adjacent an oral or nasal mucosa and a second size being configured for deposition adjacent a pulmonary mucosa; and

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ejecting the medicament droplets of each size according to a different temporal schedule into a mucosal tract from the ejector.

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23. The method of claim 22, which further comprises selecting a treatment program for addiction to a substance, the treatment program defining the different temporal schedule for ejecting the medicament droplets of each size, wherein ejecting the medicament droplets includes ejecting droplets of the substance or an analog thereof according to the different temporal schedule.

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24. A device for dispensing medicaments, comprising:

a plurality of reservoirs, each reservoir holding a different medicament composition; and

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an ejection mechanism in fluid communication with the reservoirs and including a plurality of ejection devices, each ejection device being configured to independently dispense at least one medicament composition held by least one of the reservoirs.

25. The device of claim 24, wherein each reservoir holds a different concentration of a drug.

26. The device of claim 24, wherein each reservoir holds a different  
5 drug.

27. The device of claim 24, wherein each ejection device includes a set of orifices from which the at least one medicament composition is dispensed as droplets.  
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28. The device of claim 27, wherein the orifices have a different size when compared among the ejection devices.

29. The device of claim 27, wherein the orifices have a similar size  
15 when compared among the ejection devices.

30. A medicament ejector, comprising:  
a plurality of reservoirs holding an excipient and a drug; and  
an ejection mechanism in fluid communication with the reservoirs and  
20 including at least two ejection devices, each ejection device being configured to independently dispense a different medicament composition that includes at least one of the excipient and the drug.

31. The medicament ejector of claim 30, wherein the excipient and the  
25 drug are in different reservoirs.

32. The medicament ejector of claim 31, further comprising a mixing chamber configured to mix the excipient and the drug before ejection by the ejection mechanism.  
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33. The medicament ejector of claim 32, wherein the excipient includes a fluid for dilution of the drug.

34. The medicament ejector of claim 30, wherein one of the ejection devices is configured to eject the drug, and wherein another of the ejection devices is configured to eject the excipient for in-flight dilution of the drug.

35. A medicament ejector, comprising:  
an ejection mechanism including a plurality of ejection devices, each ejection device being configured to eject droplets of medicament having a different rate of action; and  
a controller coupled to the ejection mechanism and configured to select and activate each of the ejection devices based on a desired rate of action of the medicament.

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36. The medicament ejector of claim 35, wherein medicament droplets from one of the ejection devices are configured to be deposited on an upper mucosal region of a respiratory system, and wherein medicament droplets from another of the ejection devices are configured to be deposited on a lower mucosal region of the respiratory system.

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37. The medicament ejector of claim 35, wherein the controller is configured to maintain a dose record of ejected medicament, and wherein the desired rate of action is determined based on the dose record.

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38. The medicament ejector of claim 35, wherein the controller is configured to receive a treatment plan for dispensing the medicament, the treatment plan defining temporal schedules for ejecting the medicament with the desired rate of action based on the dose record.

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39. A medicament ejector, comprising:  
at least two reservoirs for holding different medicament compositions;  
an ejection mechanism including at least two ejection devices having a set  
of orifices, the orifices of the ejection devices being interspersed and in fluid  
communication with different reservoirs; and  
a controller coupled to the ejection mechanism and configured to  
independently control ejection of the medicament compositions from the ejection  
devices.

40. A medicament ejector, comprising:  
an ejection mechanism including a plurality of ejection devices, at least  
one of the devices being configured to provide a space spray of a medicament  
and at least another of the devices being configured to provide an aerosol spray  
of the medicament; and  
a controller coupled to the ejection mechanism and configured to signal  
the ejection mechanism to provide each corresponding spray.

41. The medicament ejector of claim 40, wherein the controller includes  
a treatment plan, and wherein the controller is configured to receive an actuation  
signal and to select at least one of the ejection devices according to the treatment  
plan.

42. The medicament ejector of claim 40, wherein the space spray  
includes droplets, the droplets having an average diameter of greater than about  
10 microns.

43. The medicament ejector of claim 40, wherein the aerosol spray  
includes droplets, the droplets having an average diameter of less than about 10  
microns.

44. The medicament ejector of claim 40, wherein the ejection devices are configured to provide the space spray and the aerosol spray with different medicaments.

5           45. A program storage device readable by a processor, tangibly embodying a program of instructions executable by the processor to dispense a medicament, the instructions comprising:

            providing a treatment plan having at least two rates of action for a medicament;

10           selecting a droplet characteristic corresponding to each of the at least two rates action; and

            ejecting medicament droplets having each droplet characteristic into a mucosal tract according to the treatment plan, thereby allowing the medicament to act at two or more rates.

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